



SOFAR 3K~6KTLM-G3

3000/3600/4000/4600/5000/6000

Single-Phase Dual-MPPT

- 0** Built-in zero export function
- AFCI** Optional AFCI function
- Hand** Compact design, light in weight
- Document** Natural cooling, no fans, low noise
- 98.4%** Max. efficiency up to 98.4%
- 2 MPPT** Two MPP trackers with 1.5*DC overload
- Wi-Fi** Smart monitoring, remote firmware upgrade

Datasheet

**SOFAR
3KTLM-G3****SOFAR
3.6KTLM-G3****SOFAR
4KTLM-G3****SOFAR
4.6KTLM-G3****SOFAR
5KTLM-G3****SOFAR
5KTLM-G3-A****SOFAR
6KTLM-G3**

Input (DC)

Recommended Max. PV input power	4500Wp	5400Wp	6000Wp	7000Wp	7500Wp	7500Wp	9000Wp
Max DC power for single MPPT	3500W	3500W	3500W	3500W	3750W	3750W	4500W
Number of MPP trackers	2						
Number of DC inputs	1 for each MPPT						
Max. Input voltage	600V						
Start-up voltage	90V						
Rated input voltage	380V						
MPPT operating voltage range	80V-550V						
Full power MPPT voltage range	200V-500V	200V-500V	200V-500V	200V-500V	210V-500V	210V-500V	260V-500V
Max. Input MPPT current	15A/15A						
Max. input short circuit current per MPPT	22.5A/22.5A						

Output (AC)

Rated power	3000W	3680W	4000W	4600W	5000W	5000W	6000W
Rated apparent power	3000VA	3680VA	4000VA	4600VA	5000VA	5000VA	6000VA
Max. AC power	3300VA	3680VA	4400VA	4600VA	5500VA	5000VA	6000VA
Nominal output current	13.6A	16A	18.2A	21A	22.7A	21.7A	27.3A
Max. Output current	15A	16A	20A	23A	25A	21.7A	29A
Nominal grid voltage	L/N/PE, 220Vac, 230Vac, 240Vac						
Grid voltage range	180Vac-276Vac (According to local standard)						
Nominal frequency	50Hz/60Hz						
Grid frequency range	45Hz-55Hz/54Hz-66Hz (According to local standard)						
Active power adjustable range	0~100%						
THDi	<3%						
Power factor	1 default (adjustable +/- 0.8)						

Performance

Max efficiency	98.2%	98.2%	98.2%	98.4%	98.4%	98.4%	98.4%
European efficiency	97.3%	97.3%	97.3%	97.5%	97.5%	97.5%	97.5%

Protection

DC reverse polarity protection	Yes						
DC switch	Inbuilt						
AFCI protection	Optional						
Protection class/overvoltage category	I/III						
Safety protection	Anti islanding, RCMU, Ground fault monitoring						
SPD	MOV: Type III standard						

Communication

Standard communication mode	RS485/USB, Optional: WiFi/GPRS/4G						
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General Data

Ambient temperature range	-30°C~ +60°C						
Self-consumption at night	< 1W						
Topology	Transformerless						
Degree of protection	IP65						
Allowable relative humidity range	0~100%						
Max. Operating altitude	4000m						
Noise	<25dB						
Weight	9.2kg	9.2kg	9.2kg	10kg	10kg	10kg	10kg
Cooling	Natural						
Dimension	349*344*164mm						
Display	LCD&Bluetooth+APP						
Standard warranty	10 years						

Standard

EMC	EN 61000-6-2, EN 61000-6-3, EN 61000-3-2, EN 61000-3-3, EN 61000-3-11, EN 61000-3-12						
Safety standards	IEC62109-1/2, IEC62116, IEC61727, IEC-61683, IEC60068(1,2,14,30)						
Grid standards	VDE-AR-N 4105, VDE V 0126-1-1, V 0124-100, AS/NZS 4777, CEI 0-21, G98/G99, C10/11, EN 50549, RD 1699						